

2004 SPECIFICATIONS

H2

AIR CONDITIONING

AUTOMATIC SYSTEM

Service Specifications

HVAC SYSTEM SERVICE SPECIFICATIONS

Application	Specification
Accumulator	(1)
Compressor Replacement ⁽²⁾	2 ozs.
Condenser Replacement ⁽³⁾	1 ozs.
Evaporator Replacement ⁽³⁾	3 ozs.
R-134a Refrigerant Charge	1.6 lbs.
Total System PAG Oil Capacity	8 ozs.

(1) Add 2 ozs. of PAG oil plus equal amount of oil drained from accumulator. PAG oil GM P/N 12378526 for U.S. or P/N 88900060 for Canada.

(2) The Denso replacement compressor is precharged with 8.0 ozs. (237 ml) of PAG oil.

(3) If more than the specified amount of PAG oil was drained from a component, add equal amount drained.

Torque Specifications

HVAC SYSTEM TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
A/C Accumulator Nut-To-Evaporator	12 (16)
A/C Belt Tensioner Bolts	37 (50)
A/C Refrigerant Filter Retaining Nuts	11 (15)
Accumulator Clamp Bolt	8 (10)
Compressor Bracket Mounting Bolts	37 (50)
Compressor Clutch Plate Retaining Bolt	13 (18)
Compressor Discharge Hose-To-Condenser Nut	12 (16)
Compressor Mounting Bolts	37 (50)
Compressor Suction/Discharge Hose Bolt	12 (16)
Compressor Suction Hose At Accumulator Nut	12 (16)
Evaporator Tube Fitting At Orifice	18 (25)

Evaporator Tube At Condenser Nut	12 (16)
Evaporator Tube At Evaporator Nut	12 (16)
Hood Spring Mounting Bolt and Nut	13 (17)
Recirculation Actuator Screws	13 (17)
INCH Lbs. (N.m)	
A/C Low Pressure Switch	53 (6)
A/C Refrigerant Pressure Sensor	53 (6)
Accumulator Bracket Nut	80 (9)
Air Distribution Duct Screws	18 (2)
Air Distribution Housing Screws	18 (2)
Blower Motor Screws	18 (2)
Condenser Upper Insulator Retainer Bolts	80 (9)
Evaporator Core Cover Screws	18 (2)
Filter Access Door Screw	18 (2)
Floor Air Outlet Duct Screw	14 (1.6)
Heater Core Cover Screws	18 (2)
HVAC Module Mounting Bolts	35 (4)
HVAC Module Mounting Nuts	80 (9)
HVAC Module Screws	18 (2)
Mode Actuator Screws	18 (2)

BATTERY

Service Specifications

BATTERY SPECIFICATIONS

Application	Specification
GM Part Number	19001810
Replacement Battery Number	79-6YR
Cold Cranking Amperage (CCA)	880 Amps
Reserve Capacity Rating	115 Minutes

BRAKES

BLEEDING SEQUENCE

BRAKE BLEEDING SEQUENCE

Application	Sequence
H2	RR, LR, RF & LF

DISC BRAKES

Service Specifications

DISC BRAKES SPECIFICATIONS

Applications	In. (mm)
Front Brakes ⁽¹⁾	
Rotor Discard Thickness	1.437 (36.50)
Rotor Minimum Allowable Thickness After Refinish	1.457 (37.0)
Rotor Thickness (NEW)	1.496 (38.0)
Rotor Maximum Allowable Assembled Lateral Runout	0.005 (0.13)
Rotor Maximum Allowable Scoring	0.059 (1.50)
Rotor Maximum Allowable Thickness Variation	0.001 (0.025)
Rear Brakes ⁽¹⁾	
Rotor Discard Thickness	1.083 (27.50)
Rotor Minimum Allowable Thickness After Refinish	1.102 (28.0)
Rotor Thickness (NEW)	1.142 (29.0)
Rotor Maximum Allowable Assembled Lateral Runout	0.005 (0.13)
Rotor Maximum Allowable Scoring	0.059 (1.50)
Rotor Maximum Allowable Thickness Variation	0.001 (0.025)
⁽¹⁾ All brake rotors have a discard dimension cast into them. Replace any rotor that does not meet this specification. After refinishing rotor, replace any rotor that does not meet minimum thickness specifications.	

Torque Specifications

TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Brake Backing Plate Bolts	100 (135)
Brake Hose-To-Caliper Bolt (Front)	30 (40)
Brake Hose-To-Caliper Bolt (Rear)	30 (40)
Brake Pedal Bolt	35 (47)
Brake Pipe Fittings	18 (25)
Caliper Guide Pin Bolt (Front)	80 (108)
Caliper Guide Pin Bolt (Rear)	80 (108)
Caliper Mounting Bracket-To-Backing Plate (Front)	221 (300)
Caliper Mounting Bracket-To-Backing Plate (Rear)	122 (165)
Caliper Mounting Bracket-To-Knuckle (Front)	221 (300)
Front Wheel Hub Nuts	96 (130)
Hose Bracket-To-Anchor Plate Bolt	18 (25)
Master Cylinder Mounting Nuts	27 (36)
Negative Battery Cable Bolt	13 (17)
Power Brake Booster Nuts-Hydraulic	27 (36)

Park Brake Cable-To-Rear Axle Clip Bolt	18 (25)
Park Brake Cable-To-Shock Absorber Bracket Bolt	18 (25)
Park Brake Lever Mounting Bolts	18 (25)
Rear Jounce Hoses-To-Junction Block	18 (25)
Wheel Lug Nut	140 (190)
	Inch Lbs. (N.m)
Brake Hose Bracket-To-Steering Knuckle Bolt	124 (14)
Brake Hose Bracket-To-Upper Control Arm Bracket Bolt	80 (9)
Brake Hose Lower Bracket Bolt-To-Axle (Rear Jounce)	106 (12)
Caliper Bleed Screw	106 (12)
Intermediate Cable Threaded Rod Nut	31 (3.5)
Park Brake Cable Guide-To-Frame Bolt	106 (12)
Park Brake Warning Light Switch Bolt	25 (3)

CHARGING SYSTEM

GENERATOR

Service Specifications

GENERATOR SPECIFICATIONS

Application	Specification
Generator Model	Delphi AD244
Rated Output	145 Amps
Load Test Output	102 Amps

Torque Specifications

TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Battery Cable Bracket Bolt	18 (25)
Battery Hold Down Retainer Bolt	18 (25)
Battery Tray Nut	18 (25)
Engine Wiring Harness Auxiliary Negative Battery Cable Bolt	12 (16)
Engine Wiring Harness Ground Bolt	12 (16)
Engine Wiring Harness Ground/Negative Cable Bolt	18 (25)
Front Axle Mounting Bracket Nut	70 (95)
Generator Bracket Bolt	37 (50)
Generator Bolt	37 (50)
Negative Battery Cable Bolt	13 (17)
Positive Battery Cable Bolt	13 (17)
Starter Bolt	37 (50)

	INCH Lbs. (N.m)
Battery Cable Channel Bolt	106 (12)
Battery Tray Bolt	80 (9)
Forward Lamp Wiring Harness Ground/Negative Cable Bolt	80 (9)
Front End Diagonal Brace Bolt	80 (9)
Generator Cable Nut	80 (9)
Ground Strap Nut	80 (9)
Positive Cable Nut	80 (9)
Positive Cable at Underhood Bussed Electrical Center (UBEC) Bolt	80 (9)
Starter Lead Nut	30 (3.4)
Surge Tank Bolt/Nut	80 (9)
Transmission Cover Bolt	80 (9)

DRIVE BELTS

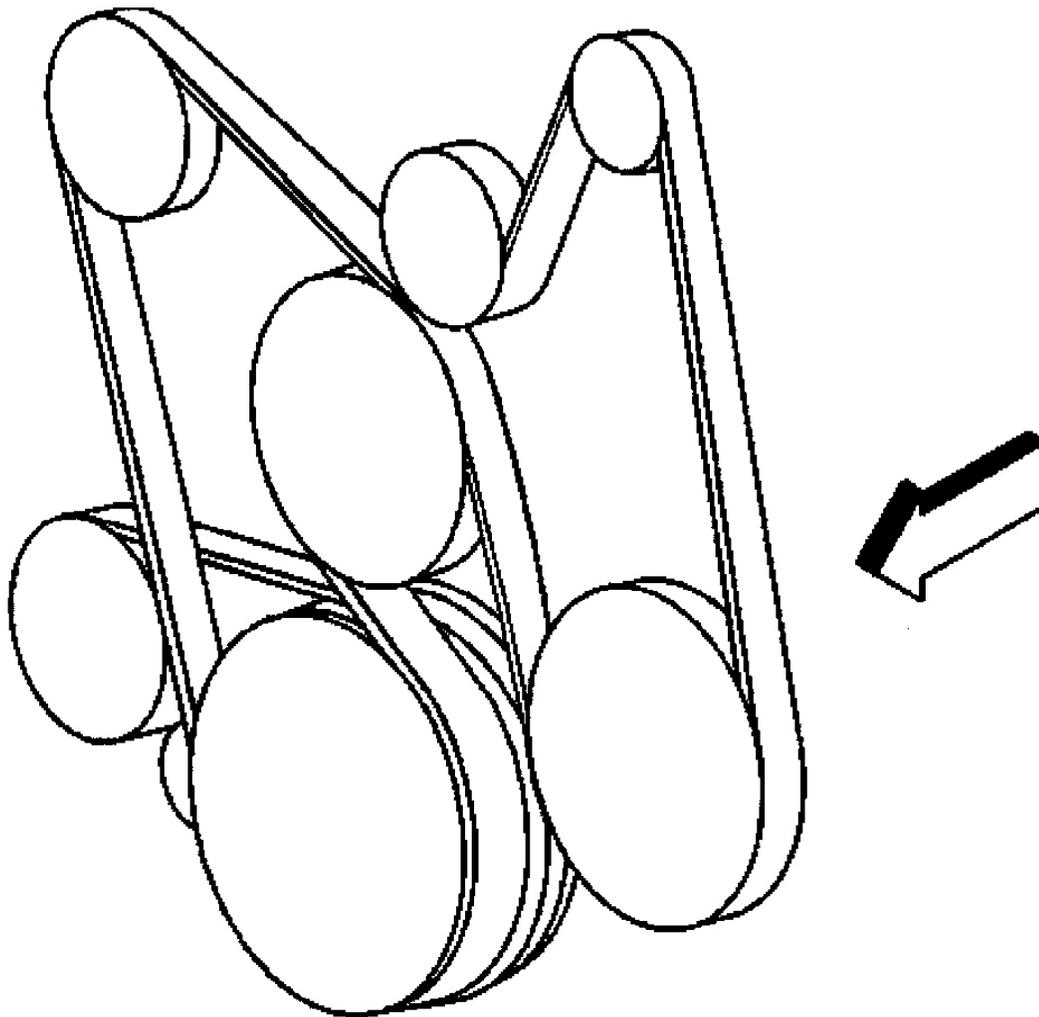
ADJUSTMENT

Specifications & Procedures

Accessory belt adjustment is not required. Automatic tensioner is used.

DRIVE BELT ROUTING

Routing Illustrations



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Fig. 1: Belt Routing (H2)

Courtesy of GENERAL MOTORS CORP.

ENGINE COOLING

SERVICE

Specifications

COOLING SYSTEM SPECIFICATIONS

Application	Specification
Coolant Capacity	14.8 Qts. (14.0L)

Coolant Replacement Intervals	(1) 150,000 Miles
Thermostat Opening Temperatures	
Thermostat Starts To Open	188°F (87°C)
Thermostat Fully Open	206°F (97°C)
(1) Or every 60 months, whichever comes first. Use GM Goodwrench DEX-COOL(R).	

Torque Specifications

TORQUE SPECIFICATIONS

Applications	Ft. Lbs. (N.m)
Coolant Heater	37 (50)
Fan Clutch Bolt	17 (23)
Fan Clutch Nut	41 (56)
Oil Cooler Hose Bracket Bolt	18 (25)
Radiator Bolt	18 (25)
Thermostat Housing Bolt	11 (15)
Water Pump Bolt	
First Pass	11 (15)
Final Pass	22 (30)
	INCH Lbs. (N.m)
Air Cleaner Outlet Duct Clamp Screw	62 (7)
Coolant Air Bleed Pipe Stud/Bolt	106 (12)
Coolant Heater Cord Bolt	71 (8)
Fan Shroud Bolt	80 (9)
Oil Cooler Hose Adapter Bolt	106 (12)
Surge Tank Bolt/Nut	80 (9)
Transmission Control Module (TCM) Cover Bolt	80 (9)
Transmission Control Module (TCM) Electrical Connector Bolt	71 (8)

FUEL SYSTEM

FUEL PRESSURE

Specifications

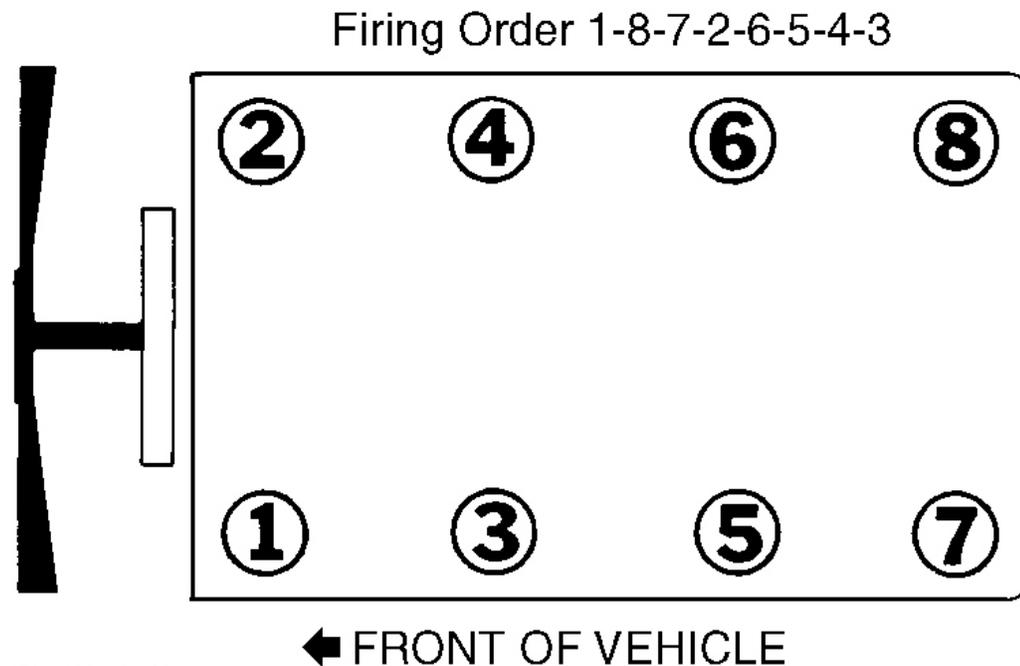
FUEL PRESSURE SPECIFICATIONS

Application	psi (kPa)
6.0L	55-62 (379-427)

IGNITION SYSTEM

FIRING ORDER

NOTE: Vehicle is equipped with a coil on each spark plug.



G95I35012

Fig. 2: Firing Order (4.8L, 5.3L, 6.0L & 8.1L)

Courtesy of GENERAL MOTORS CORP.

HIGH TENSION WIRES

Resistance Specifications

HIGH TENSION WIRE RESISTANCE

Application	Ohms
6.0L	1000 Per Foot

IGNITION TIMING

NOTE: Ignition timing is not adjustable.

SPARK PLUGS

All Specifications

SPARK PLUG SPECIFICATIONS

Application	Specification
Spark Plug Type	AC 25171803 NGK 12567759
Gap	0.060" (1.52 mm)
Tightening Torque	11 Ft. Lbs. (15 N.m)
Firing Order	1-8-7-2-6-5-4-3

STARTING SYSTEM

STARTER

Service Applications

STARTER MOTOR APPLICATIONS

Application	Specification
Starter Type	PG-260L

Torque Specifications

TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Battery Cable Bracket Bolt	18 (25)
Battery Hold Down Retainer Bolt	18 (25)
Battery Tray Nut	18 (25)
Engine Wiring Harness Auxiliary Negative Battery Cable Bolt	12 (16)
Engine Wiring Harness Ground Bolt	12 (16)
Engine Wiring Harness Ground/Negative Cable Bolt	18 (25)
Negative Battery Cable Bolt	13 (17)
Positive Battery Cable Bolt	13 (17)
Starter Bolt	37 (50)
	INCH Lbs. (N.m)
Battery Cable Channel Bolt	106 (12)
Battery Tray Bolt	80 (9)
Ground Strap Nut	80 (9)
Positive Cable Nut	80 (9)
Positive Cable at Underhood Bussed Electrical Center (UBEC) Bolt	80 (9)
Starter Lead Nut	30 (3.4)